

Title (en)

NOZZLE FOR SUBSTRATE ANALYSIS

Title (de)

DÜSE FÜR SUBSTRATANALYSE

Title (fr)

BUSE POUR ANALYSE DE SUBSTRAT

Publication

EP 3351922 A1 20180725 (EN)

Application

EP 16892669 A 20161025

Priority

- JP 2016038639 A 20160301
- JP 2016204062 A 20161018
- JP 2016081508 W 20161025

Abstract (en)

Provided is a nozzle for substrate analysis with a simple structure, which enables analysis to be reliably performed without leaking an analysis liquid when a substrate having high hydrophilicity is scanned with the analysis liquid. The nozzle for analysis of a substrate according to the present invention includes: a double pipe including a nozzle main body that discharges and suctions an analysis liquid, and an outer pipe disposed on the outer periphery of the nozzle main body so as to surround the scanning analysis liquid; exhaust means having an exhaust path between the nozzle main body and the outer pipe; and a gas spraying pipe for spraying an inert gas to the tip of the nozzle main body in a direction substantially parallel to a substrate surface, the gas spraying pipe being disposed on the outer periphery of the tip of the outer pipe and on a side opposite to a scanning direction of the nozzle.

IPC 8 full level

G01N 1/28 (2006.01); **G01N 1/32** (2006.01)

CPC (source: EP KR US)

G01N 1/14 (2013.01 - KR US); **G01N 1/28** (2013.01 - EP US); **G01N 1/32** (2013.01 - EP KR US); **H01L 21/6708** (2013.01 - EP US);
H01L 21/67242 (2013.01 - KR); **H01L 21/67253** (2013.01 - EP US); **H01L 21/67288** (2013.01 - US); **H01L 22/10** (2013.01 - US);
H01L 22/30 (2013.01 - KR)

Cited by

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3351922 A1 20180725; **EP 3351922 A4 20190123**; **EP 3351922 B1 20210811**; CN 108351281 A 20180731; CN 108351281 B 20200214;
JP 2017156338 A 20170907; JP 6156893 B1 20170705; KR 101915443 B1 20181105; KR 20180019249 A 20180223;
TW 201800735 A 20180101; TW I623735 B 20180511; US 2019013248 A1 20190110; WO 2017149833 A1 20170908

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EP 16892669 A 20161025; CN 201680050378 A 20161025; JP 2016081508 W 20161025; JP 2016204062 A 20161018;
KR 20187004143 A 20161025; TW 105140636 A 20161208; US 201615750566 A 20161025